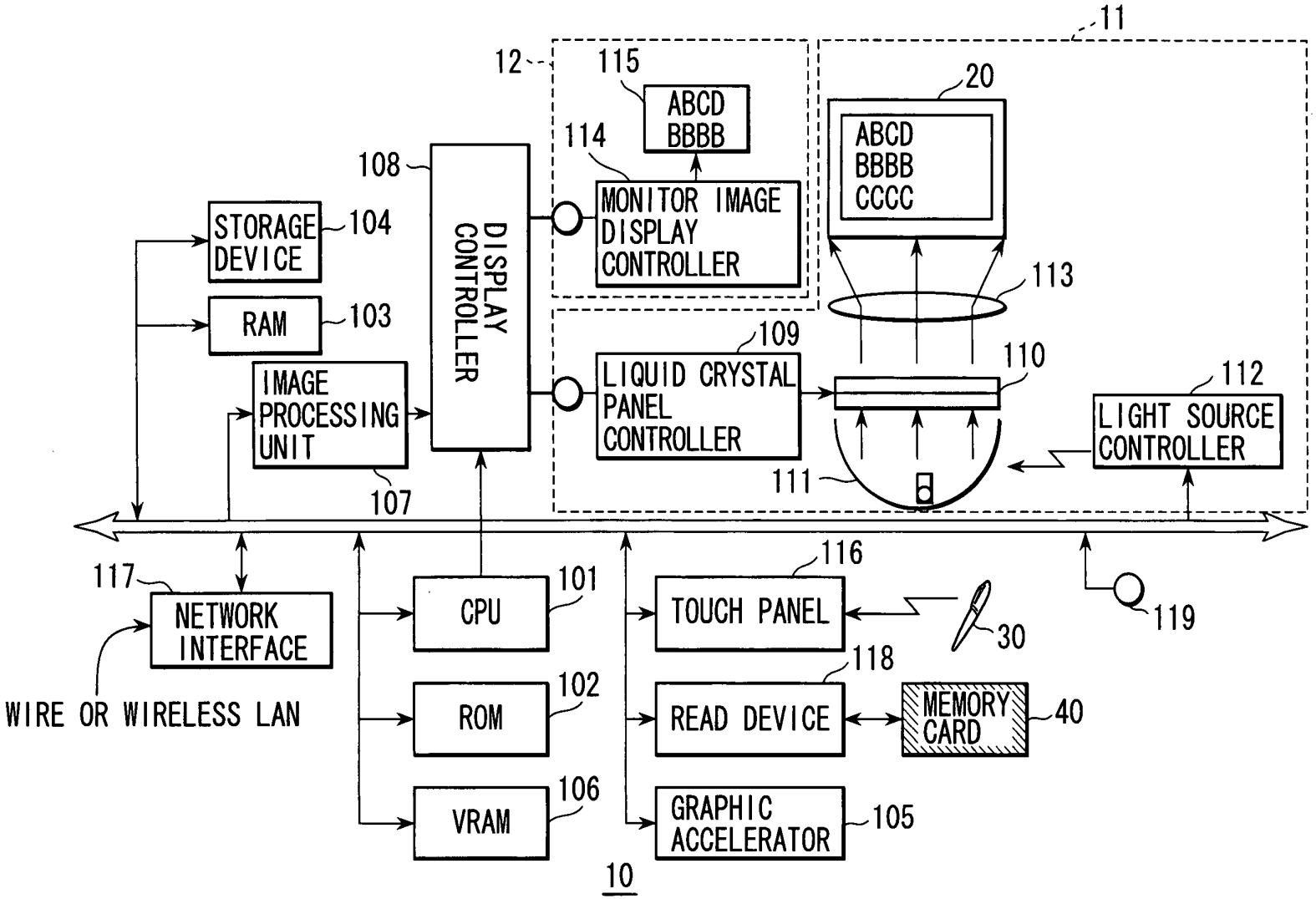

11
12
115
ABCD
BBBB
20
ABCD
BBBB
CCCC
114
108
DISPLAY CONTROLLER
MONITOR IMAGE DISPLAY CONTROLLER
STORAGE DEVICE
104
RAM
103
113
109
110
112
IMAGE PROCESSING UNIT
LIQUID CRYSTAL PANEL CONTROLLER
LIGHT SOURCE CONTROLLER
111
107
117
116
NETWORK INTERFACE
CPU
101
TOUCH PANEL
30
119
WIRE OR WIRELESS LAN
118
ROM
102
READ DEVICE
MEMORY CARD
40
VRAM
106
GRAPHIC ACCELERATOR
105
10

FIG. 1

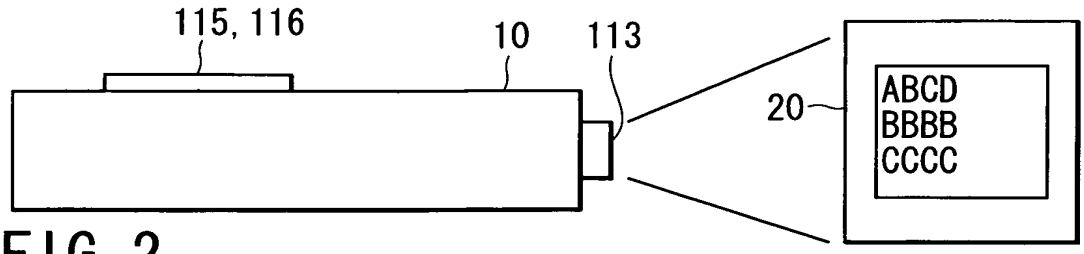


FIG. 2

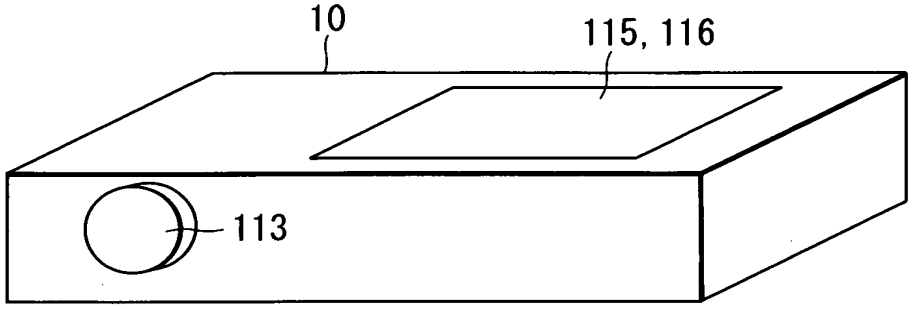


FIG. 3

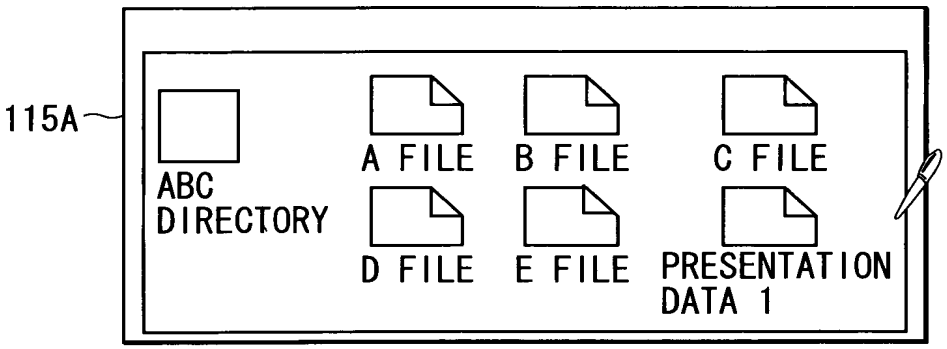


FIG. 5

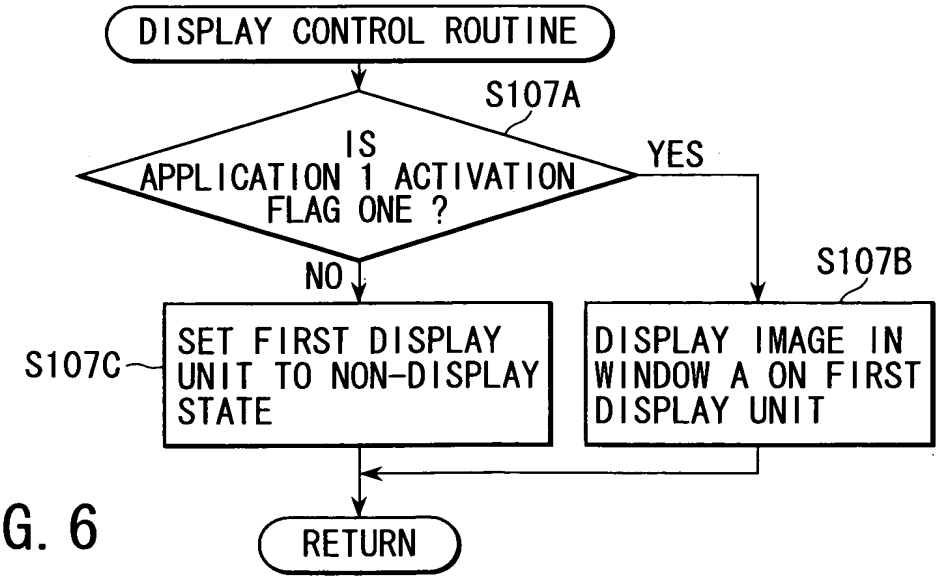


FIG. 6

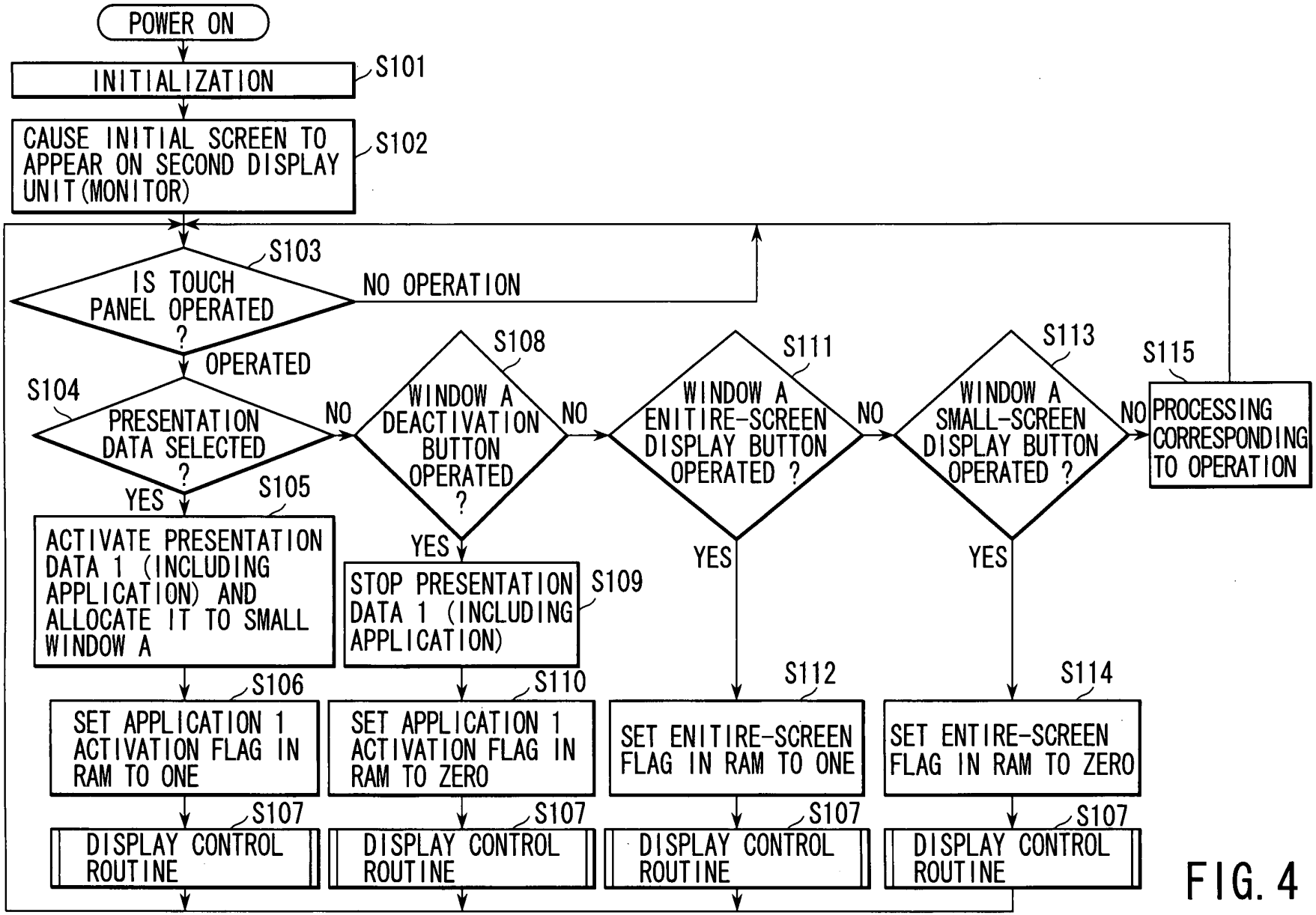

POWER ON
INITIALIZATION
S101
CAUSE INITIAL SCREEN TO APPEAR ON SECOND DISPLAY UNIT(MONITOR)
S102
S103
IS TOUCH PANEL OPERATED ?
NO OPERATION
OPERATED
S104
PRESENTATION DATA SELECTED ?
NO
S108
WINDOW A DEACTIVATION BUTTON OPERATED ?
NO
S111
WINDOW A ENITIRE-SCREEN DISPLAY BUTTON OPERATED ?
NO
S113
WINDOW A SMALL-SCREEN DISPLAY BUTTON OPERATED ?
NO
S115
PROCESSING CORRESPONDING TO OPERATION
YES
S105
ACTIVATE PRESENTATION DATA 1 (INCLUDING APPLICATION) AND ALLOCATE IT TO SMALL WINDOW A
YES
STOP PRESENTATION DATA 1 (INCLUDING APPLICATION)
S109
YES
YES
S106
SET APPLICATION 1 ACTIVATION FLAG IN RAM TO ONE
S110
SET APPLICATION 1 ACTIVATION FLAG IN RAM TO ZERO
S112
SET ENITIRE-SCREEN FLAG IN RAM TO ONE
S114
SET ENTIRE-SCREEN FLAG IN RAM TO ZERO
S107
DISPLAY CONTROL ROUTINE
S107
DISPLAY CONTROL ROUTINE
S107
DISPLAY CONTROL ROUTINE
S107
DISPLAY CONTROL ROUTINE

FIG. 4

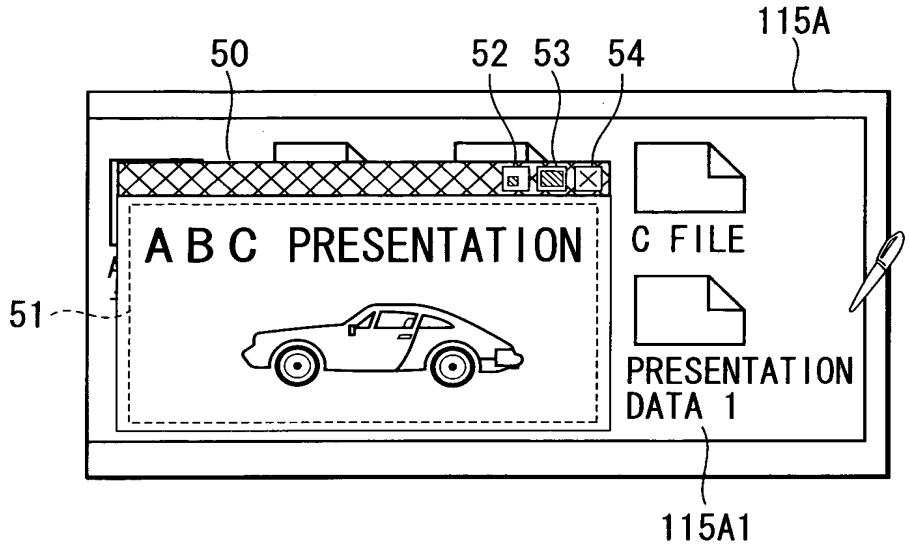


FIG. 7

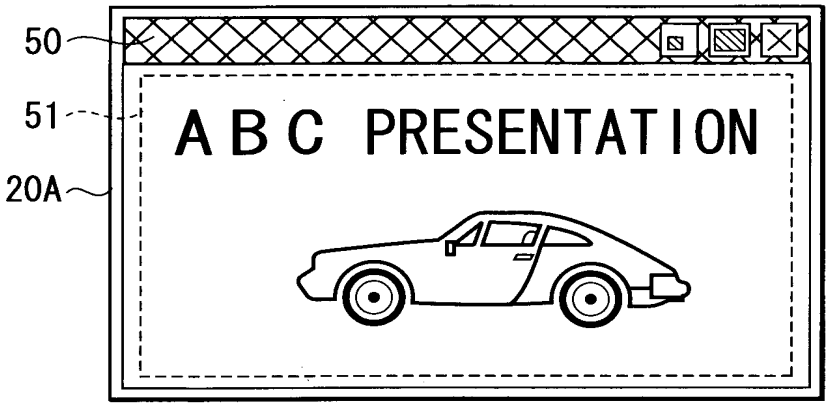


FIG. 8

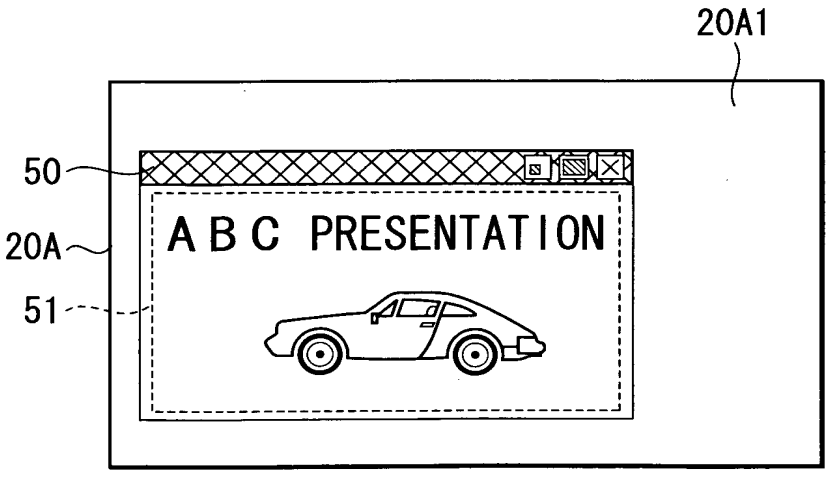


FIG. 9

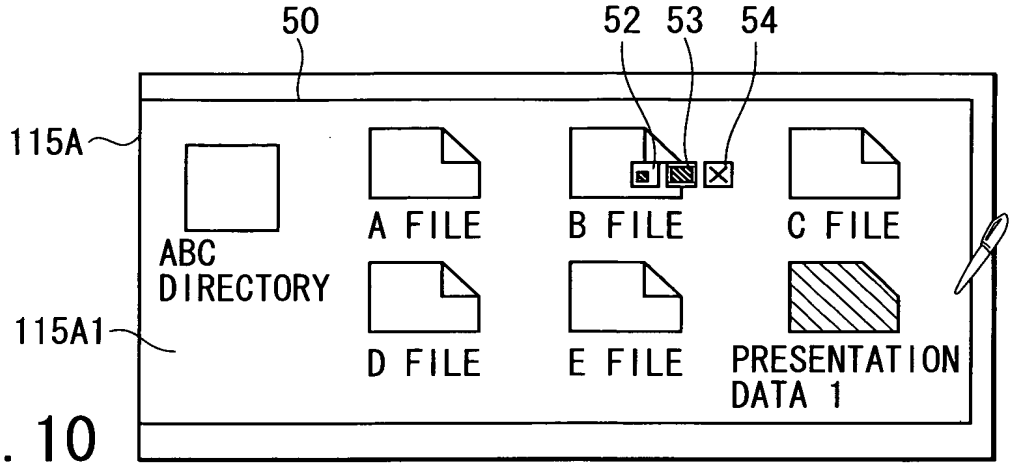


FIG. 10

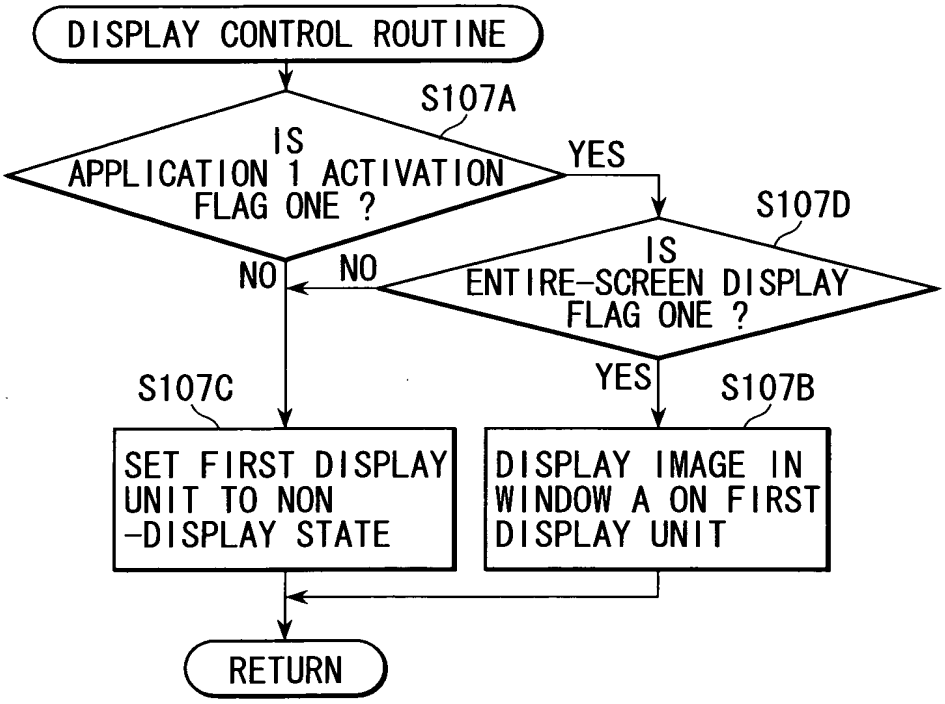


FIG. 11

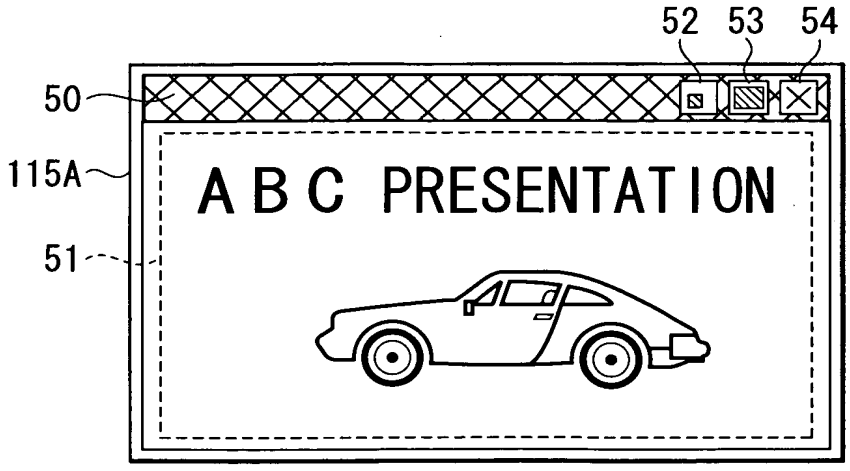


FIG. 12

FIG. 13

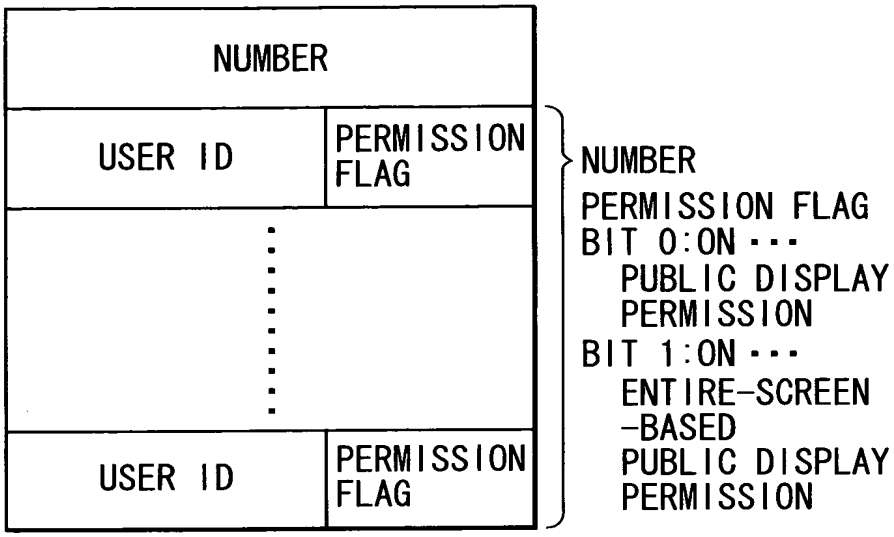


FIG. 14

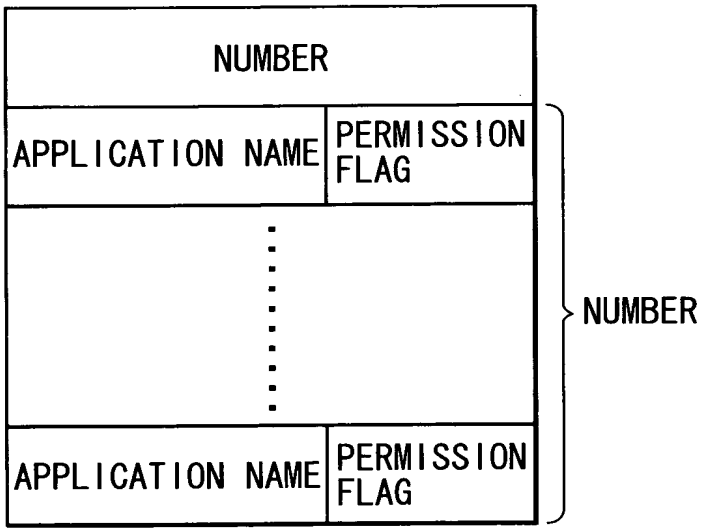
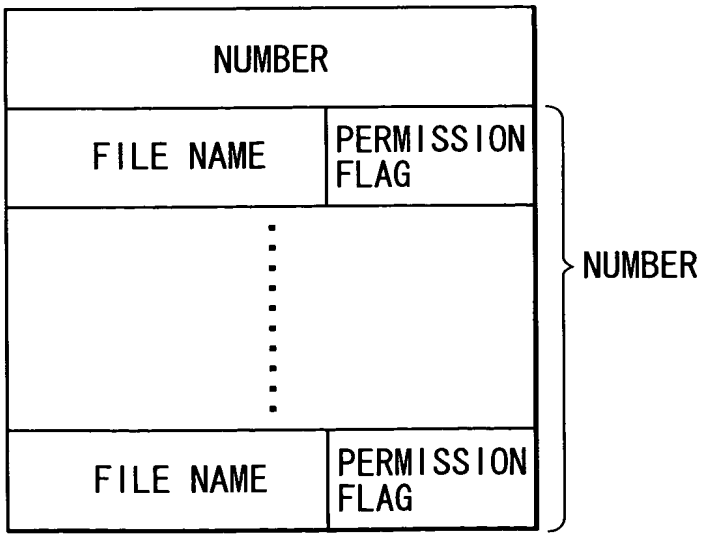


FIG. 15



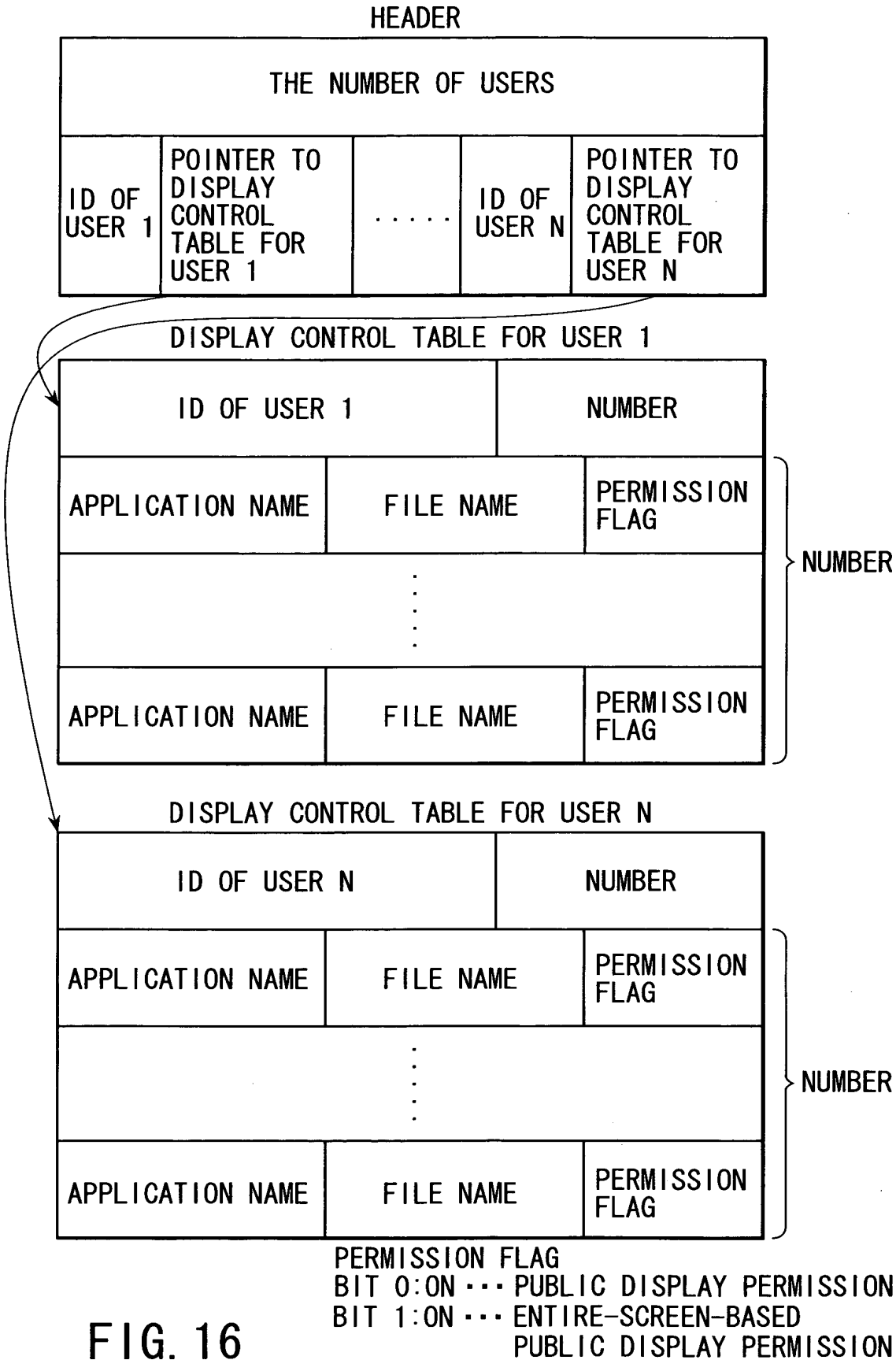

HEADER
THE NUMBER OF USERS
ID OF USER 1
POINTER TO DISPLAY CONTROL TABLE FOR USER 1
. . . . .
ID OF USER N
POINTER TO DISPLAY CONTROL TABLE FOR USER N
DISPLAY CONTROL TABLE FOR USER 1
ID OF USER 1
NUMBER
APPLICATION NAME
FILE NAME
PERMISSION FLAG
APPLICATION NAME
FILE NAME
PERMISSION FLAG
NUMBER
DISPLAY CONTROL TABLE FOR USER N
ID OF USER N
NUMBER
APPLICATION NAME
FILE NAME
PERMISSION FLAG
APPLICATION NAME
FILE NAME
PERMISSION FLAG
NUMBER
PERMISSION FLAG
BIT 0:ON ··· PUBLIC DISPLAY PERMISSION
BIT 1:ON ··· ENTIRE-SCREEN-BASED PUBLIC DISPLAY PERMISSION

FIG. 16

FIG. 17

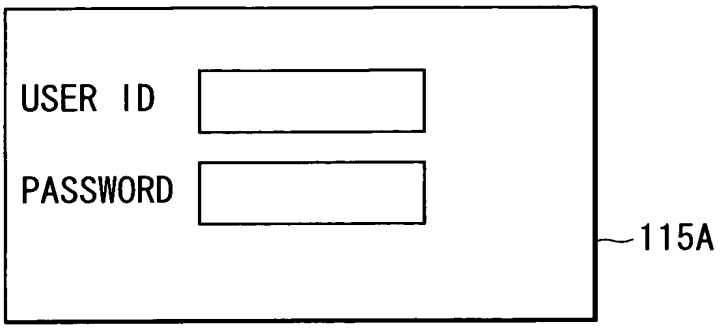


FIG. 18

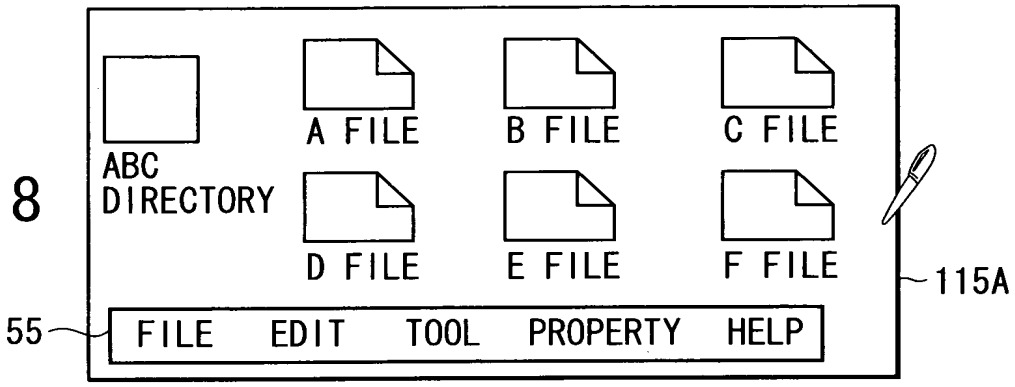


FIG. 19

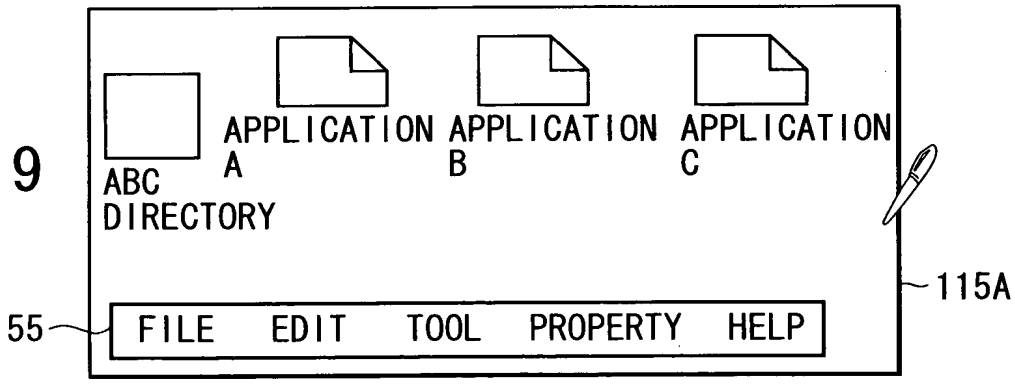
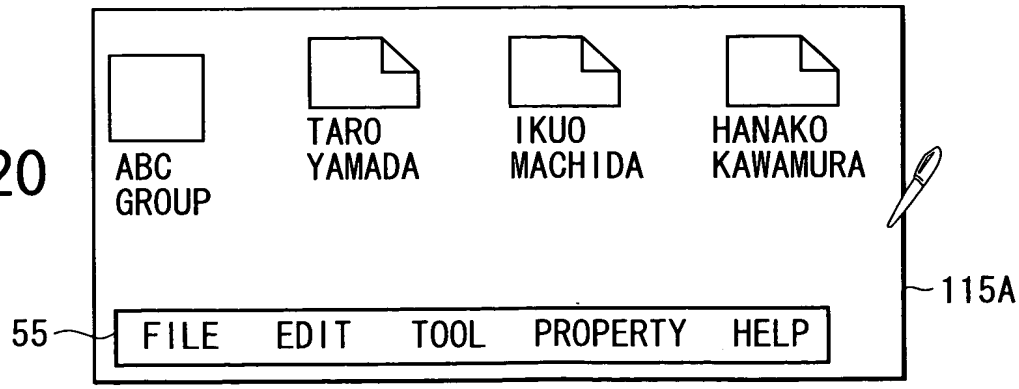


FIG. 20



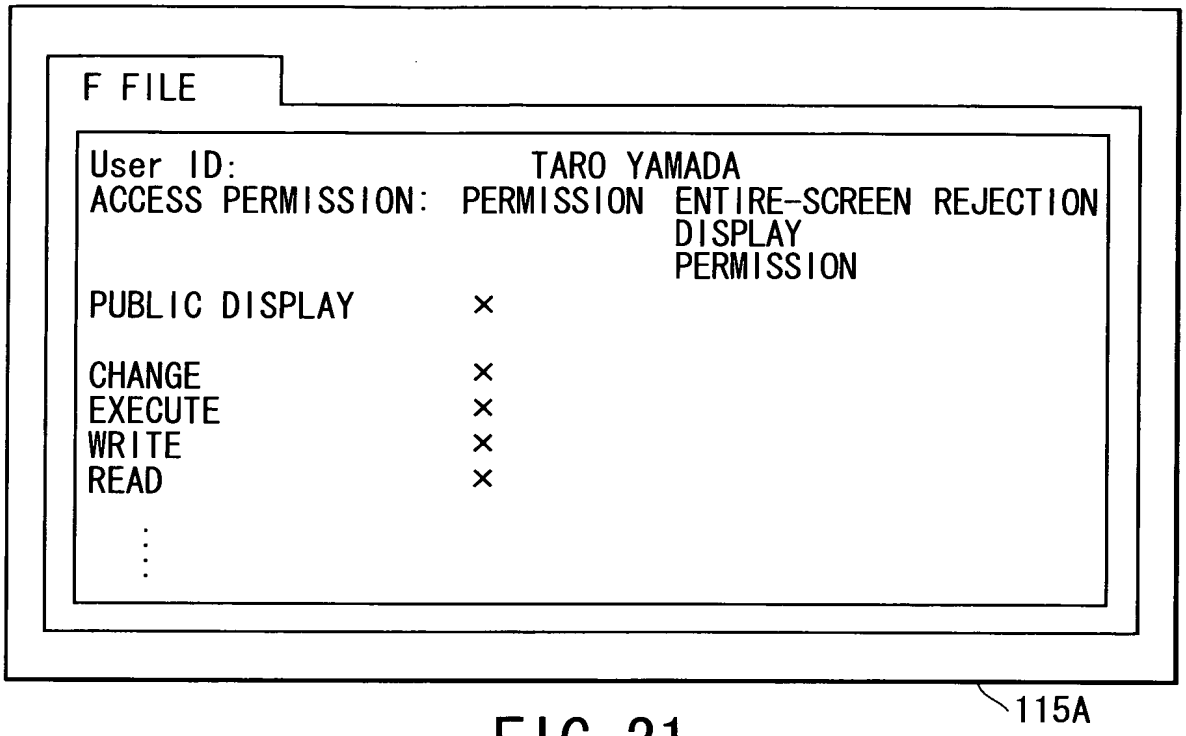

F FILE
User ID: TARO YAMADA
ACCESS PERMISSION: PERMISSION ENTIRE-SCREEN REJECTION DISPLAY PERMISSION
PUBLIC DISPLAY ×
CHANGE ×
EXECUTE ×
WRITE ×
READ ×
115A

FIG. 21

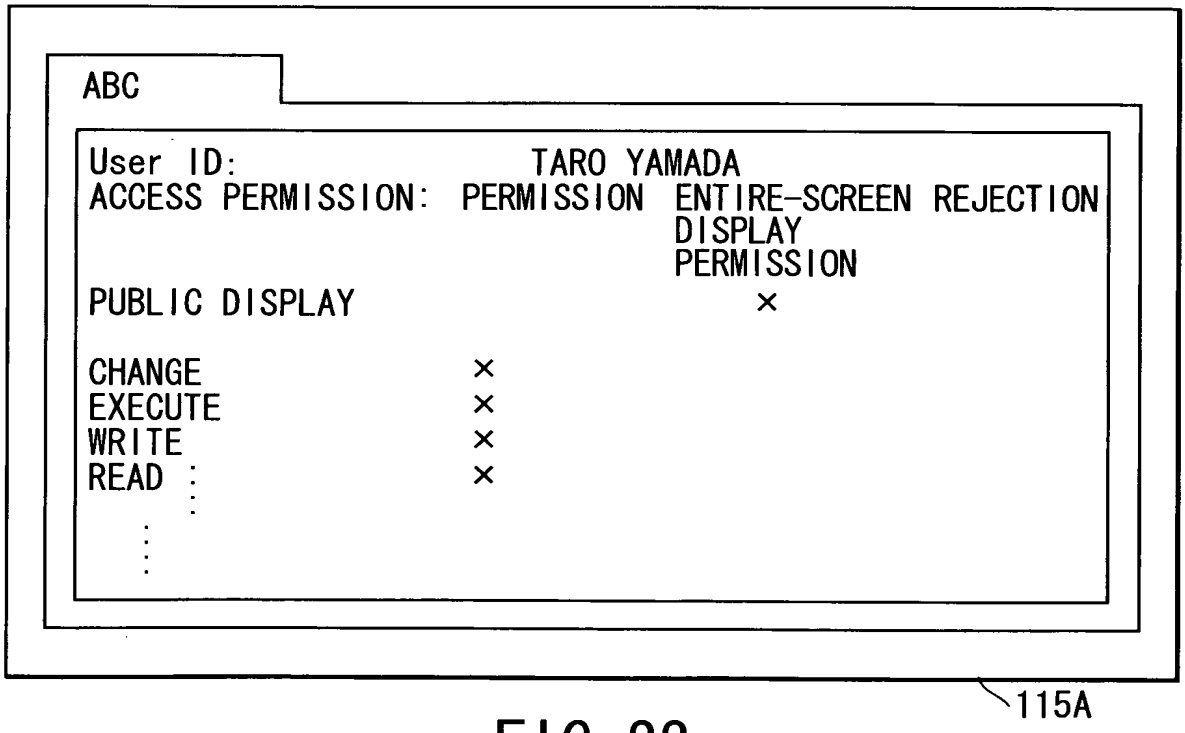

ABC
User ID: TARO YAMADA
ACCESS PERMISSION: PERMISSION ENTIRE-SCREEN REJECTION DISPLAY PERMISSION
PUBLIC DISPLAY ×
CHANGE ×
EXECUTE ×
WRITE ×
READ ×
115A

FIG. 22

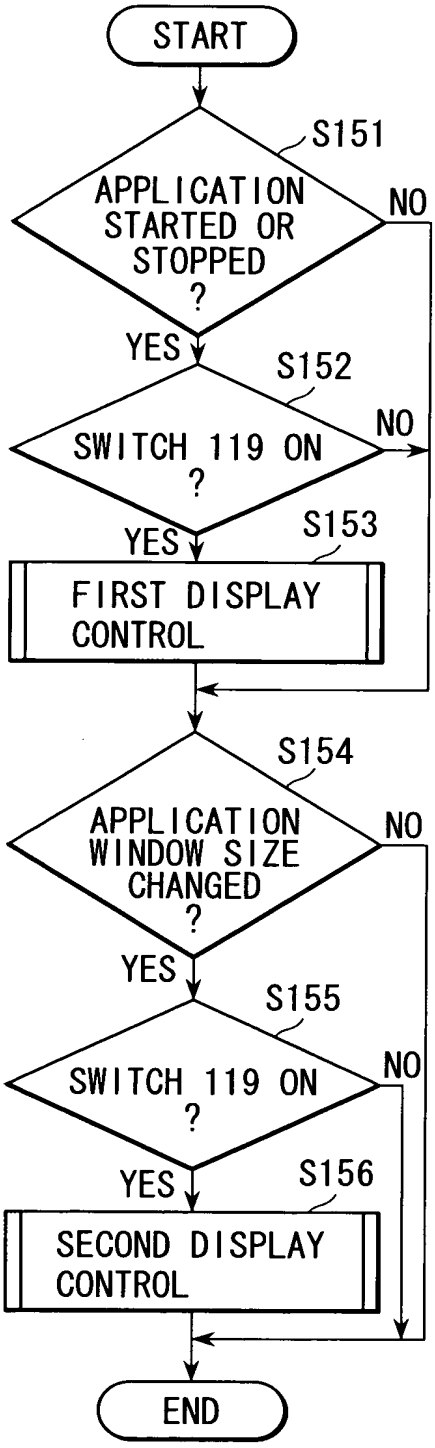

START
S151
APPLICATION STARTED OR STOPPED ?
NO
YES
S152
SWITCH 119 ON ?
NO
YES
S153
FIRST DISPLAY CONTROL
S154
APPLICATION WINDOW SIZE CHANGED ?
NO
YES
S155
SWITCH 119 ON ?
NO
YES
S156
SECOND DISPLAY CONTROL
END

FIG. 23

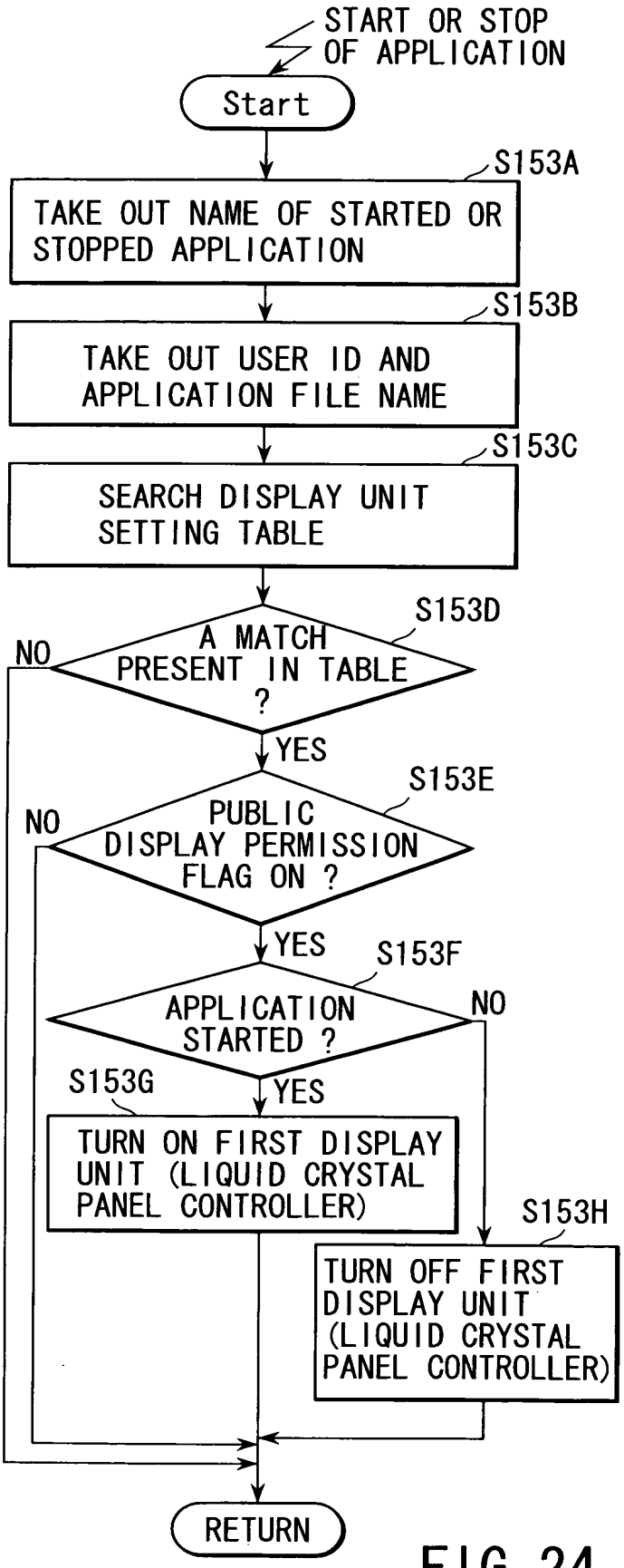

START OR STOP OF APPLICATION
Start
S153A
TAKE OUT NAME OF STARTED OR STOPPED APPLICATION
S153B
TAKE OUT USER ID AND APPLICATION FILE NAME
S153C
SEARCH DISPLAY UNIT SETTING TABLE
S153D
A MATCH PRESENT IN TABLE ?
NO
YES
S153E
PUBLIC DISPLAY PERMISSION FLAG ON ?
NO
YES
S153F
APPLICATION STARTED ?
NO
YES
S153G
TURN ON FIRST DISPLAY UNIT (LIQUID CRYSTAL PANEL CONTROLLER)
S153H
TURN OFF FIRST DISPLAY UNIT (LIQUID CRYSTAL PANEL CONTROLLER)
RETURN

FIG. 24

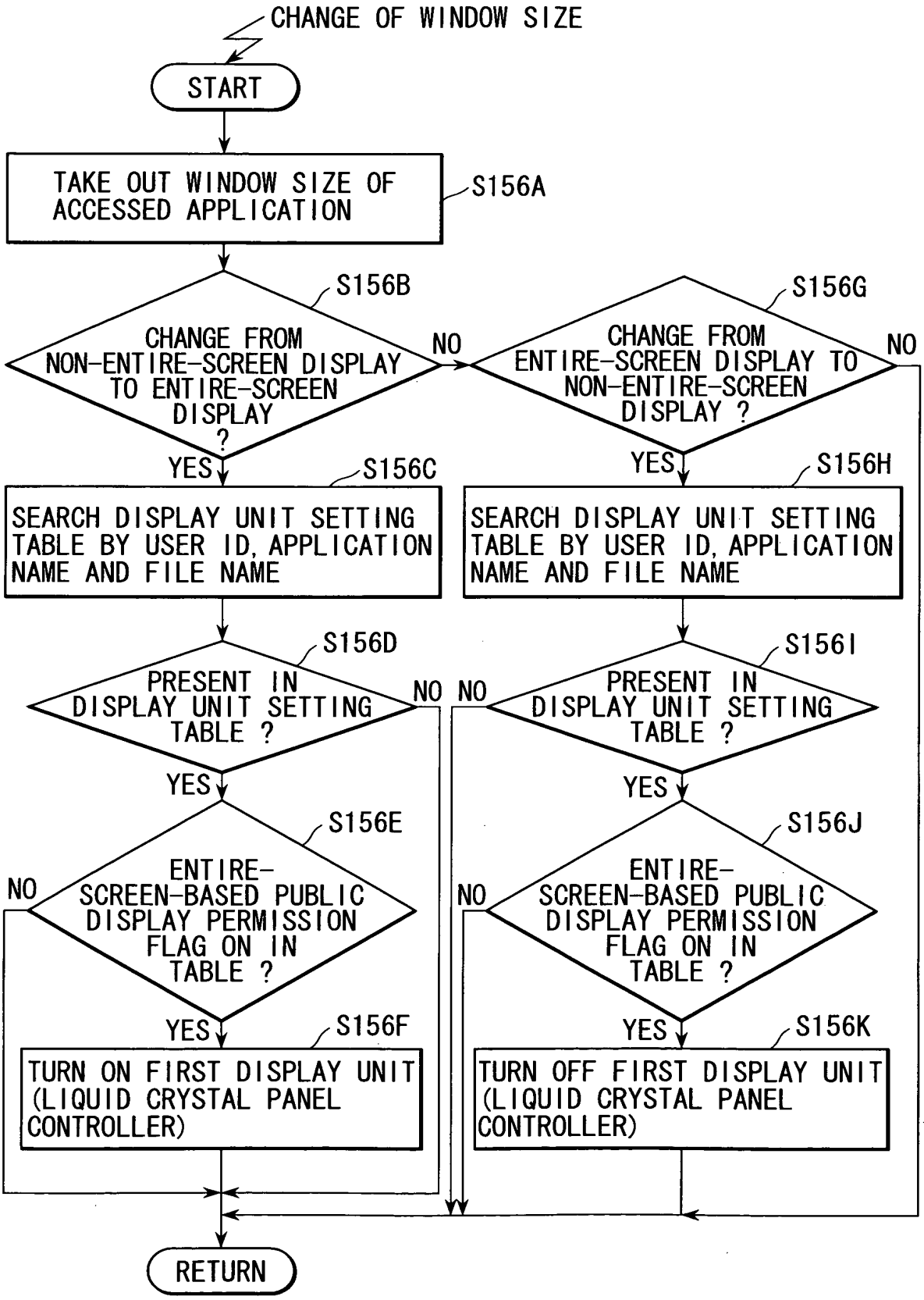

CHANGE OF WINDOW SIZE
START
TAKE OUT WINDOW SIZE OF ACCESSED APPLICATION
S156A
S156B
CHANGE FROM NON-ENTIRE-SCREEN DISPLAY TO ENTIRE-SCREEN DISPLAY ?
NO
YES
S156C
SEARCH DISPLAY UNIT SETTING TABLE BY USER ID, APPLICATION NAME AND FILE NAME
S156D
PRESENT IN DISPLAY UNIT SETTING TABLE ?
NO
YES
S156E
ENTIRE-SCREEN-BASED PUBLIC DISPLAY PERMISSION FLAG ON IN TABLE ?
NO
YES
S156F
TURN ON FIRST DISPLAY UNIT (LIQUID CRYSTAL PANEL CONTROLLER)
S156G
CHANGE FROM ENTIRE-SCREEN DISPLAY TO NON-ENTIRE-SCREEN DISPLAY ?
NO
YES
S156H
SEARCH DISPLAY UNIT SETTING TABLE BY USER ID, APPLICATION NAME AND FILE NAME
S156I
PRESENT IN DISPLAY UNIT SETTING TABLE ?
NO
YES
S156J
ENTIRE-SCREEN-BASED PUBLIC DISPLAY PERMISSION FLAG ON IN TABLE ?
NO
YES
S156K
TURN OFF FIRST DISPLAY UNIT (LIQUID CRYSTAL PANEL CONTROLLER)
RETURN

FIG. 25